

ADMISSION TEST

MS (Biotechnology)



SAMPLE TEST

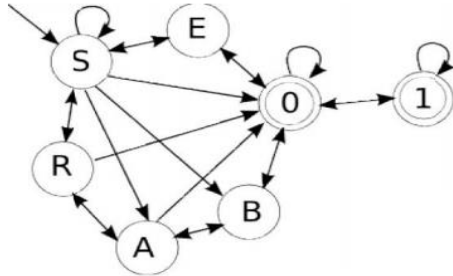
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SECTION I

Analytical Reasoning (Questions 1 – 15)

1. Engineers build rafts. For river traffic control, all rafts should be registered. It means that each raft should have a license plate with unique text. The text is composed of letters and digits according to below diagram: start with the letter B and end with digit 0 or 1.



Which of the following license plates cannot be registered?

- | | |
|-----------|-----------|
| A) SS0001 | C) SSS001 |
| B) SSS100 | D) SBA001 |

2. You have a long roll of colored paper for a party you are hosting. The paper has three different colors (yellow, red, blue) in a regularly repeating pattern. Your sister has cut out a section of the paper, as shown in the diagram below.



Your sister will give you back the missing piece of paper (shown as ...) if you can correctly guess the size of the piece she cut out. Your sister tells you the piece of paper she cut out is one of the following lengths. Which one is it?

- A) 31
- B) 32
- C) 33
- D) 34

3. Twelve men take 6 hours to finish a piece of work. After the 12 men have worked for 1 hour, the contractor decides to call in 8 more men. How many more hours would 20 men take to complete the remaining work?
- A) 2
 - B) 3
 - C) 4
 - D) 5

SECTION II

Subject Based (Questions 16 – 100)

16. Nissl's granules are present in which part of the neuron?
- a. Axoplasm
 - b. Myelin sheath.
 - c. Dendrite
 - d. Soma
17. Cell membrane under resting conditions is impermeable to all the ions except:
- a. Na^+
 - b. K^+
 - c. Cl^-
 - d. PO_4^{2-}
18. Which of the followings is missing from the nervous system of planaria?
- a. Lateral nerves
 - b. Longitudinal nerves
 - c. None of the above
 - d. All of the above
19. Vocal cords are stretched across:
- a. Larynx
 - b. Pharynx
 - c. Glottis
 - d. All of the above
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